

The Impact of Rehabilitation on Parents and Caregivers of Children with Cerebral Palsy: A Systematic Review

Abeer Almutayliq¹; Gillian Yeowell²; Francis Fatoye²

¹King Khalid University Medical City; ²Manchester Metropolitan University

INTRODUCTION

The prevalence of cerebral palsy (CP) has been reported to be 2.08 per 1,000 live births. CP is associated with severe intellectual and physical impairments. Consequently, many children with CP require the assistance of a caregiver to accomplish daily life activities. Rehabilitation is a key intervention for children with CP, and parents/caregivers of children with CP are central to achieving successful outcomes of rehabilitation. However, rehabilitation may place additional care demands on caregivers and may impact on their health and well-being [1, 2]. To date, the impact of rehabilitation on parents and caregivers of children with CP is not well understood.

Objective: This systematic review examined the impact of rehabilitation on parents and caregivers of children with CP.

METHODOLOGY

Design: A systematic review was based on the guidelines outlined by the Preferred Reporting Item for Systematic Review and Meta-analysis (PRISMA).

Databases: The following key databases were carried out to identify relevant studies: AMED, CINAHL, MEDLINE, Science Direct, NHSEED, and PsycINFO.

Inclusion and Exclusion Criteria: Inclusion criteria were: randomised controlled trials or observational studies, articles published in English language in peer-reviewed journals, involved rehabilitation intervention for children with CP aged range 0 and 18 years, included parents and or caregivers. Articles were excluded if they were not published in English language, review, did not involve rehabilitation, and did not include parents or caregivers.

A consensus method was used where there was disagreement, and an independent reviewer was consulted to make the decision regarding the final inclusion of the article in the review.

Data Extraction: Data were extracted using standard templates. The McMaster Critical Review Form for Quantitative Studies was used to assess the methodology of the studies.

RESULTS

Following removal of duplicates, 11 studies out of 1,153 met the inclusion criteria and were included in the review.

The populations of the studies included 651 caregivers of children with CP. There were four randomised controlled trials and six observational studies using a range of rehabilitation interventions.

The results indicated that rehabilitation had no significant effect on the caregivers' psychological stress or strain.

General health was measured in only one study and it showed that rehabilitation had no significant effect on caregivers' health.

However, one study found that there was a significant improvement in family empowerment following rehabilitation.

In addition, parental and or caregivers' level of satisfaction with the process of rehabilitation for children with CP was high.

CONCLUSIONS & RECOMMENDATIONS

Family empowerment improved significantly following rehabilitation for children with CP. Given the complex nature of rehabilitation for children with CP, the impact of rehabilitation on psychological wellbeing and physical health of parents/caregivers of children with this condition should be examined in future studies.

Understanding this may help to put appropriate treatment strategies in place for parents and caregivers of children with this condition.

CONTACT

Francis Fatoye PhD, MSc (HEcon), MBA
Professor of Health Economics and Outcomes

e-mail: f.Fatoye@mmu.ac.uk

REFERENCES

- [1] Raina et al. (2005) 'The health and well-being of caregivers of children with cerebral palsy.' *Pediatrics*, 115(6) e626-636.
- [2] Yilmaz et al. (2013) 'Depression and anxiety levels in mothers of children with cerebral palsy: A controlled study.' *Eur J Phys Rehabil Med*, 49(6), pp. 823-827

